Sentinel Vision SED-877 31 May 2021



Flood in New Zealand after 300 mm of rain fall in a day

Sentinel-1 CSAR IW acquired on 24 April 2021 at 17:31:24 UTC Sentinel-2 MSI acquired on 28 April 2021 at 22:25:39 UTC Sentinel-1 CSAR IW acquired on 30 May 2021 at 17:31:26 UTC Sentinel-2 MSI acquired on 02 June 2021 at 22:25:51 UTC

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Fig. 1 - S2 (28.04.2021) - Blue ribbons meander in the river bed before the event.





Fig. 3 - S2 (28.04.2021 & 02.06.2021) - The yellow matter content has largely increased in the river, which shows using this processing.

<u>3D view</u>



A state of emergency has been declared for the entire region of Canterbury in New Zealand following torrential rain and flooding.

Fig. 4 - S2 (28.04.2021) - A bit further south, near Christchurch and Banks Peninsula.



In around 21 hours on 30 May, several weather stations recorded between 200 mm and 300 mm of rain.

Fig. 5 - S2 (02.06.2021) - The sediment plume of the rivers has largely increased after the torrential precipitations.



6 - S2 (28.04.2021 & 02.06.2021) - Increased yellow matter in the rivers is visible in yellow. Fig.



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